OZAROWSKI, Aleksander; KULUZYESKI, Henryk

- 5

Studies on Asarum Europaeum L. I. Pharmacodynamic studies on oil and products of Asarum europaeum L. Polski tygod. 1ek. 9 no.32: 1003-1005 9 Aug 54.

1. Z Zakladu Farmakologii Akademii Medycznej w Lublinie, kierownik doc. dr Aleksander Ozarowski i ze Szpitala Powiatowego im. W.J. Strazewicza w Niemodlinie, dyraktor Henryk Kuluzynski. (PLANTS.):

Asarum suropeum, pharmacol.)

## KULUZYNSKI, Henryk; OZAROVSKI, Aleksander

Studies on Asarum europaeum L. II. Clinical and therapeutic studies on Asarum europaeum L. as expectorant. Polski tygod. lek. 9 no.35:1101-1105 30 Aug 54.

Ze Szpitala Powiatowego im. W.J.Strazewicza w Hiemodlinie;
 dyrektor: Dr Henryk Kuluzynski i z Zakladu Farmakognozji Akademii
 Medycznej w Lublinie; kierownik: doc dr Aleksander Ozarowski.
 (EXPECTORANTS.

asarum europaeum)

(PLANTS,

Asarum europaeum as expectorant)

USSR/Human and Animal Morphology. Mervous System. Feri- S-3 pheral Nervous System

Abs Jour: Ref Zhur - Biol., No 19, 1958, 88419

PRODUCTION OF THE PRODUCT OF THE PRO

Author : Bulygin, I. A.; Zorina-Tsikina, K.F.; Kulivanovskiy,

н. Р.

Inst : AS Belorussian SSR

Title : Experimental analysis of the Indirect Afferent

Pathways of the Pelvic Organs.

Crig Pub: Dokl. AN SSSR 1957, 1, No. 3, 126-129

Abstract: In acute experiments on dogs, besides the well-known

direct afferent pathways of the pelvic organs, 3 indirect afferent pathways were demonstrated, passing extrapyramidally into the anterior segments of the C.N.S. It was demonstrated that from the urinary bladder and rectum only direct afferent pathways

Card 1/2 reach the C.N.S. through the pelvic nerves, but also

45

USSR/Human and Animal Morphology. Hervous System. Peri- 5-3 pheral Nervous System

Abs Jour: Ref Zhur - Biol., No 19, 1958, 88419

Abstract: indirect and roundabout pathways through the inferior splanchmic nerves exist. The afferent fibers of these reach the spinal cord in the thoracic and cervical segment. The roundabout afferent pathways of the polvic organs contain not only cerebro-spinal fibers, but also sympathetic afferent fibres-originating from Dogiel's cells - typo 2.

Card 2/2

为一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们就

ZORINA-TSIKINA, K.F.; KUL' VANOVSKIY, M.P.

Interoceptive reflex influences from the bladder in young dogs. Trudy Inst. fiziol. AN BSSR 2:203-208 '58. (MIRA 12:1)

1. Inboratoriya kortiko-vistaeralinoy fiziologii Instituta fiziologii AN BSSR.

(BLADDER--INNERVATION) (BLOOD PRESSURE)
(SPINAL CORD)

YUN'YEV, G.S.; KUL'VANOVSKIY, M.P.; SHCHANNIKOVA, Z.D.

Interoceptive reflex influences from the bladder on cardiac activity in dogs (according to electrocardiographic data). Trudy Inst. fiziol. AN BSSR 2:209-219 '58. (MIRA 12:1)

1. Iaboratoriya kortiko-vistseral'noy fiziologii Instituta fiziologii AN BSSR.

(BIADDER--INNERVATION) (BLECTROCARDIOGRAPHY)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

KULI VANOVSKIY, M.P.

Interoceptive reflex influences from the bladder on respiration and blood pressure following the transection of pelvic and hypogastric nerves. Trudy Inst. fiziol. AN RSSR 2:220-228 '58. (MIRA 12:1)

1. Inboratoriya kortiko-vistseral'noy fiziologii Instituta fiziologii AN BSSR.

(BLADUER--INNERVATION) (RESPIRATION)
(BLOOD PRESSURE)

KUL'VANOVSKIY, M. P. Cand Biol Sci -- (diss) "Afferent traces of interoceptive reflexes from the rectum." Minsk, 1959. 24 pp with charts (Acad Sci Belorussian SSR. Inst of Biology), 150 copies (KL, 52-59, 118)

-39-

BULYGIN, I.A.; ZORINA-TSIKINA, K.F.; KUL'VANOVSKIY, M.P.

Analysis of collateral afferent pathways of intercemtive reflexe

Analysis of collatoral afferent pathways of interoceptive reflexes from pelvic organs [with summary on English]. Fiziol.zhur. no.1: 7-15 Ja 159. (MIRA 12:2)

1. From the Institute of Physiology, BSSR Academy of Sciences, Minsk. (PELVIS, physiol. collateral afferent pathways of interoceptive reflexes from pelvic organs (Rug)) (REFLEX.

same))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

Intersceptive reflexes from the rectum following transaction of the spinal cord and some vegetative nerves. Vester AN BSSR.
Ser. bital. nav. no.1:80-98 '59. (MIRA 12:7)
(RECTUM--INNERVATION) (SPINAL CORD)
(NERVOUS SYSTEM, AUTOHOMIC)

ZURINA-TSIKINA, K.F.: KUL'VANOVSKIY, M.P.

Interoceptive reflexes from the bladder following transsection of the spinal cord and different authonic formations. Trudy Inst.fiziol. AN BSSR 3:178-189 '59. (MIRA 13:7)

l. Laboratoriya kortiko-vistseral'noy fiziologii Instituta fiziologii AN BSSR.

这里的全部的全部的企业的企业的全部的全部的主义,但在这种企业的企业的企业,但是是自己的企业的企业的企业,但是是一个企业的企业的企业的企业的企业的企业的企业的企业。 第一章

(BLADDER--INNERVATION) (NERVOUS SYSTEM) (REFLEXES)

## KUL'VANOVSKIY, M.P.

Role of various authonomic formations in the afferent innervation of the rectum. Trudy Instificial. AN BSSR 3:199-204 159.

(MIRA 13:7)

1. Laboratoriya kortiko-vistseral'noy fiziologii Instituta fiziologii AN BSSR.

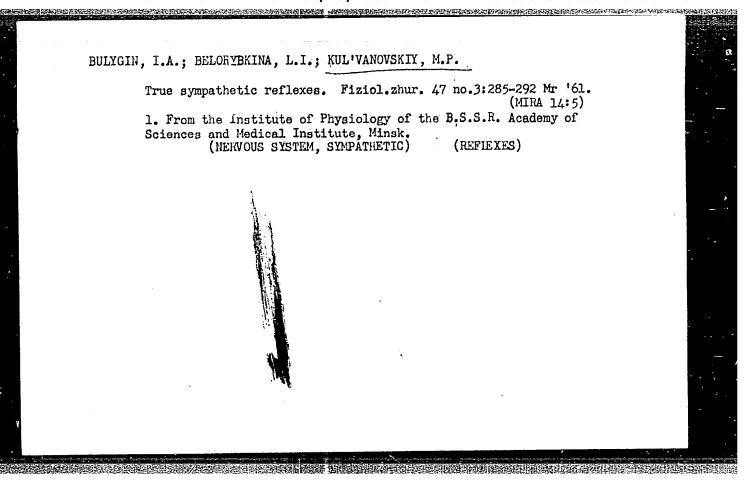
(RECTUM--INNERVATION) (NERVOUS SYSTEM, AUTONOMIC)

BULYGIN, I.A.; KUL'VANOVSKIT, M.P.

New preparation for studying peripheral viscoro-viscoral reflexes. Dokl.AN BSSR 3 no.12:510-511 D '59.

(MIRA 13:4)

(REFLEXES)



BULYGIN, I.A.; KUL'VANOVSKIY, M.P.

DIRECTOR AND DESCRIPTION OF THE PROPERTY OF TH

Abdominal organ specimen for the study of peripheral visceral reflexes. Fiziol. zhur. 47 no.6:780-782 Je '61. (MIRA 15:1)

1. From the Laboratory of Cortico-Visceral Physiology B.S.S.R. Institute of Physiology, Minsk.
(REFLEXES) (LABORATORY ANIMALS)

BULYGIN, I.A.; BALAKUNINA, E.I.; KUL'VANOVSKIY, M.P.

Ganglionic mediation and its role in forming viscero-visceral reflexes. Fiziol. zhur. 47 no.9:1096-1104 S '61. (MIRA 14:9)

1. From the Institute of Physiology, B.S.S.R. Academy of Sciences, Minsk.

(REFLEXES)

#### KUL'VANOVSKIY,S.O.

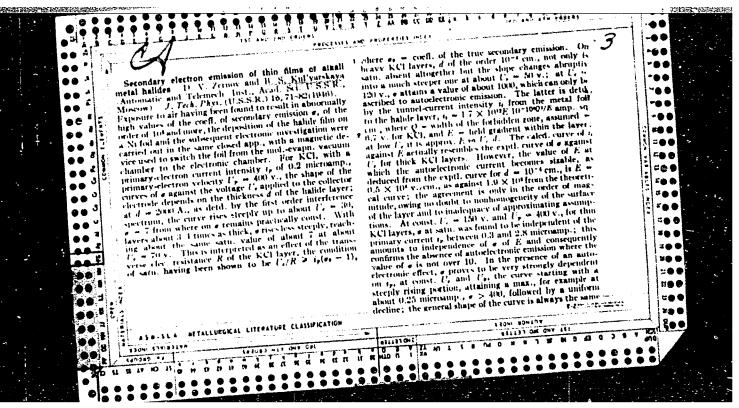
Polish geography textbook for the 5th class of the secondary school ("Knowledge of geography; class 5"[in Polish]. M.Czekanska, H.Radlicz-Ruhlowa. Reviewed by S.Kul'vanovskii. Geog. v shkole 18 no.3:75-77 My-Je '55. (MIRA 8:9) (Poland--Geography--Textbooks) (Czekanska, M.) (Radlicz--Ruhlowa, H)

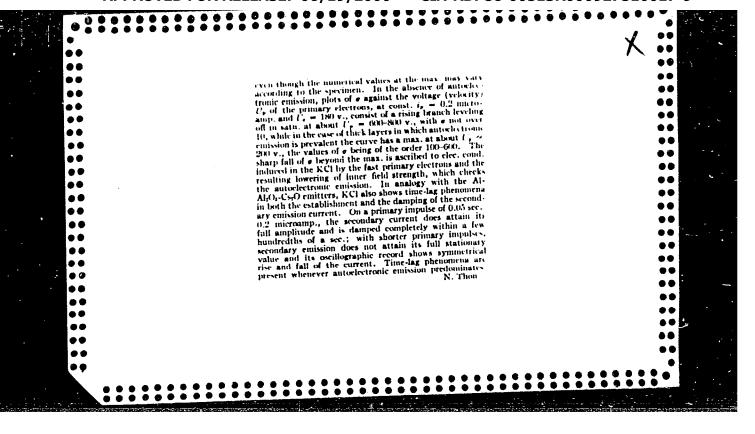
Climate of the Gorkiy area in climatograms. Uch.zap.GGFI
(MIRA 13:6)
20:188-265 '58.
(Gorkiy—Climate)

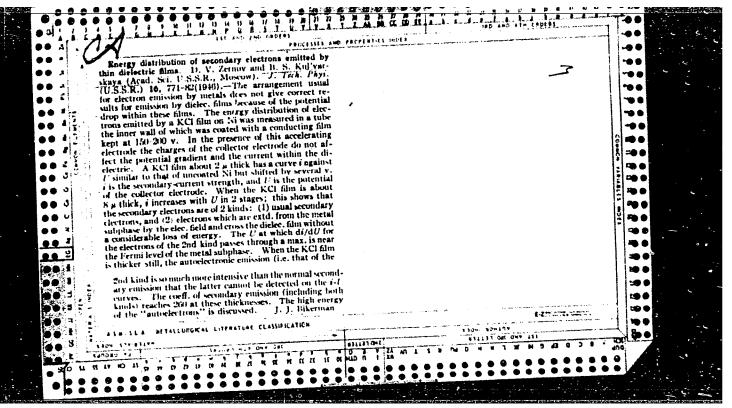
KHARITONYCHEV, A.T.; KUL'VANOVSKIY, S.B., dotsent, red.

[Role of men in landscape changes of the right-bank area of Gorkiy Frovince] Rol' khoziaistvennoi deiatel'nosti cheloveka v izmenenii landshaftov Gor'kovskogo pravoberezh'ia. Gor'kii. Gor'kovskii gos.pedagog.in-t im. A.M.Gor'kogo, 1960. 149 p. (HIRA 14:2)

(Gorkiy Province--Physical geography)







KUL'VARSKAJA, B. S.

Investigation of the Effect of Temperature on the Electronic Emission of Dielectric Films Under the Influence of the Field of a Positive Surface Charge. (In Russian.) D. V. Zernov and B. S. Kul'varskaia. Journal of Technical Physics (U.S.S.R.), v. 17, no. 3, 1947, p. 308-318.

Describes experiments indicating that the electronic emissivity of dielectric films is strongly influenced by temperature. A maximum is indicated for the range 10° to 30°C. From 10°C. to the temperature of liquid air, the electronic emissivity of the above films drops to a zero value. A similar drop occurs upon increasing the temperature from 30° to 80°C.

KUL'VARSKAYA, B. S.

KUL'VARSKAYA, E. S.: "Investigation of secondary electron emission from alloy emitters". Moscow, 1955. Inst of Radio Engineering and Electronics, Acad Sci USSR. (Dissertations for the degree of Candidate of Technical Science.)

SO: Knizhnava Letopis' No. 50 10 December 1955. Moscow.

KUL'VARSKAYA, B.S.; VAYNSHTRYN, B.K.

Electronographic study of the structure of silver-magnesium and copper-magnesium alloys. Trudy Inst.krist.no.ll:97-100 155.
(NLRA 9:6)
(Silver-magnesium alloys) (Copper-magnesium alloys)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

KULLUARSKAYA, B. S.

USSR/Electronics - Electronic and Ionic Emission

H-2

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12290

Author

: Kul'varshaya, B.S.

Inst Title

: Secondary Electron Emission from Alloys.

Orig Pub

: Radiotekhn. i elektronika, 1956, 1, No 4, 512-524

Abstract

: Report of the results of an experimental investigation of the secondary electron emission from various alloy emitters with a copper and nickel base. The investigated alloys (CuMg, CuBe, NiBe, NiZr, NiTi, Ni, Ba, and NiMg) were activated by the method of dosed oxidation, i.e., according to the pressure drop of the oxygen in this system. For each alloy, a determination was made of the optimum amount of absorbed oxygen per square centimeter required to insure the maximum value of the coefficient of secondary emission  $\sigma$ . The activation processes of the alloys differed in their temperature modes,

Card 1/3

ÜSSR/ELEASER OF 19/2000 CIA-RDP86-00513R000927510017-9

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 12290

and the limits of the activation temperatures rose from magnesium alloys (approximately 300 -- 4000) to beryllium alloys, and then to alloys NiTi and NiZr (9000). An investigation of the temperature-stability of alloyed emitters has shown that the lowest temperature (500 -- 550) is withstood by magnesium alloys with a 3% content of magnesium, followed by copper-beryllium alloys, which withstand prolonged heating at a temperature of approximately 7500, nickel-beryllium, and nickel-magnesium, which are suitable for 900 -- 10000, and then nickel-zirconium -- for 10000 and above. Deep oxidation of the majority of alloys causes the appearance of the "Molter" emission with anomalously high values of G (up to 280 for NiBe). An investigation of the endurance of the emitters to the action of air has shown that the most stable, as compared with magnesium alloys, are beryllium alloyed emitters. Several recommendations are made concerning the use of various alloys in

KUL'VARSKAYA, B. S.

"Secondary Electron Emission From Wickel Base Alloys," by B. S. Kul'varskaya, Institute of Radio Engineering and Electronics, Academy of Sciences, USSR, Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol 20, No 9, Sep 56, pp 1029-1027

Basic requirements to the separate components of nickel based alloys (NiBe, NiZr, NiTi, NiBa, NiMg) were studied from the standpoint of securing the stability and resistance to air and temperature of the emitters. The most resistant to the action of air proved to be beryllium alloys. The stability of efficient emitters of alloys was rising while passing from magnesium emitters (AgMg and CuMg) to NiBe and further to NiTi and from magnesium emitters (agMg and CuMg) to NiBe and the tested nickel NiZr. Because of their strong resistance to heat and the tested nickel NiZr. Because of their strong resistance to heat and the tested nickel mased alloys (NiBe, etc.) may be used as cathode materials for low power based alloys (NiBe, etc.) may be used as cathode materials for low power magnetrons, whose cathodes have to stand during operation temperatures over 1,000°C.

Sum 1258

AUTHOR:

KUL'VARSKAYA, B.S., YASNOPOL'ASKAYA, A.A.

PA - 2602.

Inter-Departmental Seminar on Cathode Electronics. (Mezhduvedomst-

vennyy seminar pe katodnoy elektronika, Russian). Radiotekhnika i Elektronika, 1957, Vol 2, Nr 3, pp 357 - 358

PERIODICAL: Radiotel

(U.S.S.R.)
Received: 5 / 1957

ABSTRACT:

On January 7 th 1957 four lectures were delivered. V.A. Simonov spoke about "Thermoemission with impulse glowing". During the passage of current impulses of great density (105 = 107 A/cm2) through metal wire, high currents occurred between the wire and the adjoining wire, high currents occurred between the wire and the adjoining electrodes. According to the authors' epinion, they are due to the discharge along the wire. By means of a mass spectrometer, hydrogendions, oxygen-, carbon-, and nitrogen ions were recorded during these proceedings. The phenomena are explained by the impulse desorption of the gas andby those processes which are due to the expansion of rapidly forming ion - electron plasmata. Thus, Lebedev's and Khaykin's theory of the existence of an anomalous thermo-electron emission and the occurrance of deviations from Langmure's law during the impulse glowing of metal wires has become untenable. N.I.

Malyshev reported about: "State and tendency of the investigations on the elaboration of L-cathodes." The cathode has the following data: 4 W power consumption, 1000° C working temperature, the current density at this temperature amounts to 6 - 7 A/cm² (with

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

Inter-Departmental Seminar on Cathode Electronics. PA - 2602 impulse operation), operation time 5000 hours at 1000 C, evaporation velocity of barium - 8.10-4 (4/100 hours.

A.V.Morozov spoke about "The technology of the production of tungaten barium cathodes". The three types differ in form and in the manner in which the single parts are connected. Operating time more than 100 hours. Current densities up to 5 A/cm<sup>2</sup>.

B.N.Pepev spoke about "Thorium oxyde cathodes and their application in electric vacuum appliances." Metal-ceramic cathodes were developed which can be used in the magnetron of the centimeter range. The main advantage is their moderate sparking.

ASSOCIATION: Not given.

PRESENTED BY: SUBMITTED:

AVAILABLE:

Library of Congress.

Card 2/2

KAL VARSKAYA, 18 S.

109-4-20/20

AUTHOR: Kulvarskaya, B.S., Yasnopolskaya, A.A. and Alpatova, N.M.

Interdepartmental Seminar on Cathode Electronics. TITLE: duvedomstvennyy seminar po katodnoy elektronike)

Radiotekhnika i Elektronika, 1957, Vol.2, No.4, pp. 511 - 512 (USSR). PERIODICAL:

ABSTRACT: The seminar took place on February 4-5, 1957, in the Institute of Radio-engineering and Electronics of the Soviet Academy of Sciences and was devoted to the problem of cataphoretic coating of oxide cathodes and anaphoretic coating of heaters. The following papers were read, of which short summaries are given:
Lavrov, I.S. "Electrophoretic processes in organic media."
Berger, A.Yu. "New developments in the technology of the cataphoretic coating of cathodes with carbonates."

Parkhomenko, v.S. "Mechanisation and automation of the cataphoretic coating of cathodes with carbonates." vostrov, G.A. "Emissive and other properties of cataphoreticallycoated oxide cathodes." Bashuk, R.P. "Electrophoretic coating of heaters with aluminium oxide."

Gandelsman, I.L. "Production technology of the anophoretic

Card1/2 coating of heaters."

109-8-17/17

AUTHORS: Kulivarskaya, B.S., Trigubenko, V.A., and Maslovskaya, R.S.

TITLE: Inter-Departmental Seminar on Cathode Electronics. (News) (Mezhduvedomstvennyy Seminar Po Katodnoy Elektronike -Khronika)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol. II, Nr 8, pp.1086-1088 (USSR)

ABSTRACT: A meeting of the Inter-Departmental Seminar on Cathode Electronics took place on May 6, 1957, in the Institute of Radio Engineering and Electronics of the Soviet Academy of Sciences, at which six papers were read. These dealt primarily with the thermal emission and the technology of preparation of thermionic cathodes. The papers were as follows: D.G.Bulyginskiy: "Investigation of the Coefficient (1-R) in the Formula for Thermal Emission".

B.S.Kul'varskaya and G.V.Stepanov: "Emission Constants of the Oxides of Rare Earths". V.D.Sobolev: "Distribution of Comment on the Surface of Contact Contact in Toxic Devices." Current on the Surface of an Oxide Cathode in Ionic Devices". N.G.Orshanskaya: "Progress in the Technology of the Preparation of Large Sponge Nickel-Oxide Cathodes".

L.A.Radchenko and V.S.Parkhomenko: "Ultrasonic Mixing of the Suspensions for the Electrophoretic Coating of Cathodes, Heaters and other

Card 1/2 components.

SOV/109-3-8-4/18

AUTHORS: Kul'varskaya, B.S., Marchenko, V.B. and Stepanov, G.V.

TITLE: Emission Characteristics of the Oxides of Rare-earth Metals (Emissionnyye svoystva okislov redkozemel'nykh

metallov)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 8,

pp 1005 - 1009 (USSR)

ABSTRACT: The paper gives some experimental data on thermionic and secondary electron emission of various rare-earth

oxides. The investigations were carried out on thin layers of rare-earth oxides having a thickness of about several thousand A. The layers were obtained in a special device by evaporating the oxide from a tungsten vessel. The following characteristics were measured:

the dependence of the secondary electron emission coefficient  $\sigma$  on the velocity of the primary electrons  $U_p$ , collector potential  $U_c$  and the incidence angle

of the primary electrons  $\varphi$ . The results are shown in Figures 1 and 2 and in Table 1. Figure 1 shows  $\sigma = f(U_p)$  for: 1) homium oxide; 2) samarium oxide;

3) gadolinium oxide and 4) lutecium oxide. Figure 2

Card1/3

SOV/109-3-8-4/18 Emission Characteristics of the Oxides of Rare-earth Metals

represents  $\sigma = f(U_p)$  for ytterbium oxide for various angles of incidence. The table shows the maximum secondary emission coefficient; this is found to vary from 1.7 to 2.83. The thermal emission characteristics of the oxides were studied on the basis of the Richardson curves. The measurements were carried out in a special, experimental diode, fitted with a directly heated tungsten cathode. The anode system consisted of three coaxial cylinders, the middle cylinder being the actual anode. The Richardson emission constants A and the work function  $\phi$  were determined for the oxides of the following metals: Yt, La, Pr, Ne, Sm, Eu, Gd, Tb, Dy, Ho, Er, Yb, Lu and Th. These are shown in Table 2 (p 1007). Some of the Richardson curves are given in Figure 3. From the investigation, it is concluded that a number of rare-earth oxides, in particular, those of yttrium can be used successfully as emissive material in the cathodes where thorium oxides have been employed.

CET d2/3

KULL VARSKAVA, 13.3

AUTHORS:

SOV/109-3-8-17/18
Alekseyeva, A.P., Basalayeva, N.Ya., Yelinson, M.I.,
Zernov, D.V., Kul'varskaya, B.S., Lifshits, T.M.,

Savitskaya, Ya.S., Sena, L.A., Shabel'nikova, A.E. and

Yurasova, v.Ye.

TITLE:

The Eighth All-Union Conference on Cathode Electronics (8-ye vsesoyuznoye soveshchaniye po katodnoy elektronike)

PERIODICAL: Radiotekhnika i Elektronika, 1958, vol 3, Nr 8,

pp 1092 - 1103 (USSR)

ABSTRACT:

The conference took place during October 17 - 24, 1957 in Leningrad at the Fiziko-tekhnicheskiy institut AN SSSR (Physics-engineering Institute of the Ac.Sc.USSR). It was organised by the Soviet Ac.Sc. and was attended by Soviet scientists from Moscow, Leningrad, Kiyev and other towns of the Soviet Union as well as by delegates from Hungary, Czechoslovakia and Romania. Altogether, over one hundred lectures were delivered at the conference.

These were divided into the following sections: thermionic emission and the technology of thermionic cathodes; secondary electron emission; photo-electron emission; field electron emission; cathode conductivity phenomena; ionic processes and gas discharges. Some of the papers

Card1/2

SOVE109-3-8-17/18

The Eighth All-Union Conference on Cathode Electronics

read at the conference are published in the present issue of the journal: in fact, all the papers in this issue were read at the conference. Some of the papers were published in an earlier issue of the journal (vol 2, mr 12, 1957). A number of papers from the conference are being published in "Izvestiya AN SSSR, Ser. Fiz" Mrs 4 and 5 and also in various other journals. The present report gives brief summaries of a large number of the papers presented at the conference.

SUBMITTED:

February 4, 1958

Card 2/2

1. Cathodes (Electron tube) 2. Thermionic emission 3. Secondary

emission 4. Photoemission 5. Field emission

Interinstitutional seminar on cathode electronics; ninth session.
Radiotekh. i elektron. 3 no.8:1103-1104 Ag '58. (MIRA 11:9)
(Electron emission) (Cathodes)

26.2531 26.23/2

5/109/60/005/008/009/024

9,3120 (1003, 1137, 1140)

E032/E514

AUTHORS :

Kul'varskaya, B.S. and Maslovskaya, R.S.

TITLE:

Thermionic Emission and Vapour Pressure of the Oxides of

Rare-Earth Metals

PERIODICAL: Radiotekhnika i elektronika: 1960, Vol.5, No.8,

pp.1254-1260

TEXT: The thermionic emission was measured using the apparatus described by the first of the present authors et al. in Ref.6. specimens under investigation (20 µ thick) were deposited on tungsten wires. A cylindrical tantalum anode was used in each case and the temperature of the tungsten wire was measured by determining its resistance (with corrections for end offects). The cathodes were activated after a vacuum of about  $2 \times 10^{-7}$  mm Hg had been reached. Since the anodes were not cooled, the thermionic emission could not be measured at temperatures in excess of 1500°C. results obtained are summarised in Table 1. A study was also made of the effect of the wire material on which the oxides were deposited on the thermionic emission. It was found that at 1400°C the volt/amp characteristics for Mo. Ta and W were roughly the same.

Card 1/4

是这个人,我们也是是一个人的人,我们就是这些人的,我们就是这些人的人,我们就是<mark>是是这种的人,我们就可以</mark>是是我们的人,我们就是这些人的,我们就是这些人的人,我们

S/109/60/005/008/009/024 E032/E514

Thermionic Emission and Vapour Pressure of the Oxides of Rare-Earth Metals

The vapour pressures of the rare-carth metals were measured using the Knudsen molecular effusion method, and the results were represented in the form of the usual formula  $\lg p = -(B/T) + A$ . The results obtained are summarised in Table 2. The last column in this table gives the heats of evaporation. Atknowledgments are made to B. M. Tsarev for his interest and advice. There are 4 figures, 2 tables and 10 references; 2 Soviet and 8 non-Soviet.

SUBMITTED: December 21, 1959

Card 2/1

## s/109/60/005/008/009/024 E032/E514

Thermionic Emission and Vapour Pressure of the Oxides of Rare-Earth Matals

Activa			Temperature, °C							10	Table 1			
Oxide of	tempera		100	00 110	0	1200	130	,		1500	1600	0		
	°C	Onnen	лан-	1300-1350	3 - 10-1	1,7-10-1	[2,4-10-1]	[4,5.10-1]	[0,8-1,0]	[2]		<b>~</b> ~		
Lantha	num			1400—1500	-	1-10-9	1-10-2	[2-10-1]	_	[1,6]	-			
Praseo	dymium	Окись одим	110+ 1	14001500		-	2.10-1	7 · 10-2	1.10-1	3.10-1	[2]	٠		
Neodym	ium	рин		1750 1850	1:	1	-	1.10-8	4.10-3	1.10-2	4-10-2			
Samari	um	Окись ини Окись		1450 –1550 1450	1 10-2	5 10-*	1.10-8	2·10-3 4·10-1	7.10-8	[0,6]	[1.0]			
Europi	um	лин: Окись			3.10-	1.10-	İ	3.10-1	_	[1,0]		. /.		
Gadoli	nium	Опись	· . ]	1450 —1550		5.10-3		1.10-1	3.10-1	_	i	广		
Terbiu	m			1800-1000	: <u>-</u>	_	2-10-8	5-10-3	i 5-10-2	4.10-	1 - 10-1	: <b>V</b> :		
Dyspro Holmiu		мия: Окись Окись	ונונטקפ -דונ	1750 —1850 1450	6 - 10 - 3	1.10-2 0.8.10-3		3·10 <sup>-1</sup> 1,4·10 <sup>-2</sup>			=	•		
Erbium Ytterb	ium	тербі Опись теңиі	и лю-	1550 <b>—1</b> 650	1 · 10-2	· ·	1	_	-	-	-	:		
Luteci Card 3							·							

#### S/109/60/005/008/009/024 E032/E514

Thermionic Emission and Vapour Pressure of the Oxides of Rare-Earth Metals

Oxide of	Temperature interval, °K	A -	В	△H <sub>c</sub> kcal/m	Table	e 2
Lanthanum Cerium	Значения 2	1, В и ΔH <sub>0 всп</sub> для от металлов		дкоземельн	мх	
Praseodymium Neodymium	1 Вид описла	Пределы температур при измерениях, °К	Λ	<b>-в</b>	ΔИ <sub>-исп</sub> , ккал/моль	*
Samarium Europium Gadolinium	Онись лантена Онись цория	1980—2220 2050—2320	4,38- 4,65	20150 20240	92,1 92,5	1
Dysprosium Holmium	Окись призеодима Окись пеодима Окись самария	2060—2400 2080—2670 2120—2350	5,44 5,56 5,75	23700 24000 23900	103.3 109.5 109.3	
Erbium Ytterbium	Окись (пропия Окись (пролиця Окись диспрозил	2050—2300 2080—2380 2260—2460	7,56 5,65 16,41	25600 24700 51500	117,0 113,3 235,6	
Lutecium	Опись Гольмия Опись прбия Опись изторбия	2230—2490 2270—2490 2000—2400	9,7 8,42 7,53	35500 33080 27500	162,2 151,4 125,8	
Card 4/4	Овись лючеция	2120—2400	1 15,42	47050	215,3	

S/109/60/005/012/035/035 E192/E382

AUTHORS: Vikhlyayeva, R.P., Kul'varskaya, B.S.,

Shabel'nikova, A.E. and Yasnopol'skaya, A.A.

TITLE: Interdepartmental Seminar on Cathode Electronics

(16th Session)

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol. 5,

No. 12, pp. 2074 - 2075

TEXT: The Sixteenth Interdepartmental Seminar on Cathode

Electronics took place on June 6, 1960.

Five papers were read:
"Investigation of the Influence of the Adsorption of Gases
"Investigation of the Influence of the Adsorption of Gases
and Their Mixtures on the Work Function of Semiconductors"
was discussed in a paper by E.Kh. Yenikeyev et al. This paper
was discussed in a paper by E.Kh. Yenikeyev et al. This paper
gave the results of the measurement of the work function in
Ge, CuO, NiS, MnO<sub>2</sub> and other materials in the presence of various
adsorbed gases and vapours (O<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>O<sub>1</sub> etc.).

A.V. Druzhinin reported on the influence of the contact fields of the spots on the current taken from the cathode operating

Card 1/3

S/109/60/005/012/035/035 E192/E382

Interdepartmental Seminar on Cathode Electronics (16th Session)

in the space-charge regime. On the basis of his experimental data the author showed that the main factor leading to an increase in the perveance of a diode with a pressed cathode is the increase in the intensity of the activated barium stream.

The third paper was read by P.V. Timofeyev and R.M. Aranovich. They reported the results of their investigation of a cold cathode made of magnesium oxide. They constructed electron tubes with magnesium-oxide cathodes (on a nickel base) coated with a layer of porous magnesium oxide having a thickness of 50  $\mu$ . These tubes could operate in various amplifying devices and could give an anode current up to 10 mA. The useful life of these tubes is more than 10 000 hours. The authors also demonstrated such a tube in a low-frequency amplifier.

Card 2/3

S/109/60/005/012/035/035 E192/E382

Interdepartmental Seminar on Cathode Electronics (16th Session)

In the paper "Secondary-emission Characteristics of Antimony Sulphide and its Analogues" by V.L. Makedonskiy, it was shown that the secondary emission coefficient of the layers of  ${\rm Sb}_2{\rm S}_3$ .

Sb2Se3 and Sb2Te3 does not exceed 1.3.

A paper by V.A. Grodko et al entitled "Influence of the Difference of the Work Functions of the Electrodes of a Thermionic Converter on Its Output Parameters" presented the results of a theoretical analysis of the dependence of the output power and efficiency of a converter on the difference between the work functions of the anode and cathode (the above paper is published in the present issue of the journal).

Card 3/3

BALASHOVA, A.P.; GOR'KOV, V.A.; ZHDAN, A.G.; KUL'YARSKAYA, B.S.; PARILIS, E.S.; POLYAKOVA, M.A.; YURASOVA, V.Ye.; YASNOPOL'SKIY, N.L.

Tenth Congress on Cathode Electronics. Radiotekh. i elektron (MIRA 15:6)

(Electronics—Congresses)

# KUL'VAKSKHYH, B, S,

AID Nr. 979-10 29 May

THERMOELECTRIC EMISSION PROPERTIES OF ZFC-UC SOLID SOLUTION SYSTEMS (USSR)

Kul'varskaya, B. S., V. A. Grodko, B. N. Markar'yan, and I. M. Rubanovich. Radiotekhnika i elektronika, v. 8, no. 4, Apr 1963, 675-679.

S/109/63/008/004/018/030

The device used in the investigation was a diode with the cathode stamped from a tantalum strip in a shape permitting temperature compensation. The specimens were cemented to the working area of the cathode (0.10 cm²) in thicknesses of 80  $\mu$ . After vacuum processing, the specimens were detached in a vacuum of the order of  $10^{-7}$  mm Hg, and measurements were made. The results were plotted along Schottky curves, from which the densities of the saturation current were determined. At 120 amp/cm² degree, the value of emission O (T) was calculated by the Richardson-Dushman equation, and the

Card 1/2

AID Nr. 979-10 29 May

THERMOELECTRIC EMISSION PROPERTIES [Cont'd]

s/109/63/008/004/018/030

temperature coefficient was determined. It was found that all the investigated compounds of the system possess a rather high emitting capacity, substantially exceeding the thermoelectric emission of pure refractory metals. Compounds of the system from UC to  $(ZrC)_{0.8}$ –  $(UC)_{0.2}$  inclusive have the highest thermoelectric emission rate. The  $ZrC_{0.8}$  –  $UC_{0.2}$  compound is considered the best emitter of the whole system. Stable emission from the cathodes of the investigated system are obtained only after adequate aging at 2000°K. [DW]

Card 2/2

ACC NR: AP7000789

SOURCE CODE:

UR/0089/66/021/05/0368/0375

AUTHOR: Kul'varskaya, B. S.

ORG: none

TITLE: Investigation of the rates of evaporation of cathodes made of uranium and zirconium carbides and their solid solutions

SOURCE: Atomnaya energiya, v. 21, no. 5, 1966, 368-375

TOPIC TAGS: uranium compound, carbide, zirconium carbide, electrode, evaporation, electric arc, thermionic energy conversion

ABSTRACT: In view of the great interest in the use of ZrC and UC and their solid solutions for electrodes in converters of heat power into electricity, the author has measured the rate of evaporation of these substances, using a method different from those previously published in the literature, in that it combines the Langmuir method in conjunction with the Becker method. The apparatus used for the tests was similar to that described by K. S. Beynar and B. P. Nikonov (Radiotekhnika i elektronika v. 10, 476, 1965). The ZrC was investigated at temperatures 2000 - 2500K and the UC at temperatures 1700 - 1900K. The oxides were evaporated from tantalum and rhenium substrates. The test procedure is described in detail. The rates of evaporation of ZrC cathodes ranged from ~2 x 10-9 to ~26 x 10-9 g-cm-2 sec-1 for ZrC, from ~9 x 10-9 to ~4 x 10-8 g-cm-2 sec-1 for UC, and from ~4 x 10-9 to ~4 x 10-8 g-cm-2 sec-1 for UC, and from ~4 x 10-9 to ~4 x 10-8 g-cm-2 sec-1 for UC, and from ~4 x 10-9 to ~4 x 10-8 g-cm-2 sec-1 for UC, and from ~4 x 10-9 to ~4 x 10-8 g-cm-2 sec-1 for UC, and from ~4 x 10-8 g-cm-2 sec-1 for UC, an

Card 1/2

UDC: 621.362: 621.039.542.344

ACC NR: AP7000789

cathode was found to be dependent on the substrate used, being higher for a tantalum substrate than for a rhenium substrate. The results are compared with those obtained by others and reasons for the discrepancies are discussed. Orig. art. has: 9 figures, 1 formula, and 1 table.

SUB CODE: 20/ SUBM DATE: 26Aug65/ ORIG REF: 008/ OTH REF: 014

Card 2/2

Widely spread mistake in academic literature on physics. Fiz. v shkole 22 no.2:89-90 Mr-Ap '62. (MIRA 15:11) (Physics-Study and teaching)

ZALEVSKIY, N.I.; KULIKOVA, A.N.; KUL!VINOVA, L.A.; SHISHMAREVA, O.Ya.; YAKOVLEVA, M.V.

Porous structure and physicochemical properties of natural screents of some deposits of Far East. Trudy DVFAN SSSR.

Ser.khim. no.7:26-30 165. (MIRA 18:12)

KULIVINSKAYA H. /.; RAZUV/HEV G. A.; F DOTOV M. J.; and BAYCHEIKO T. N.

Reactions of Tetraphenyl Lead and Tetraphenyl Tin With Chlorides of Petals Which Do Not Form Stable Organo Retallic Compounds, Page 1512, Sbernik stritey po obshehey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1636.

Goriskiy State U

KUL'VINSKIY, Lev Vasil'yevich; KRAYZEL'MAN, S.M., red.; SVYATITSKAYA, K.P., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Pipe insulating machines and bitumen-melting units] Truboizoliatsion-nye mashiny i bitumoplavil'nye ustanovki. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 87 p. (MIRA 14:6) (Bituminous materials) (Pipe)

-07-58-7-3/43

AUTHOR:

Kulivits, P. Deputy-chairman of the Lithuanian SSR Sownark-

THE PROPERTY OF THE PROPERTY O

hoz

TITLE:

Radio Amateurs Must Make Their Contribution (Radiolyubiteli

dolzhny vnesti svcy vklad)

PERIODICAL:

Radio, 1958, Nr 7, pp 6-7 (USSR)

ABSTRACT:

As part of the automation-of-industry drive, the newly formed Nauchno-issledovatel skiy institut elektrografii (Research Institute for Electro-graphy) in Vilnyus is studying and designing various apparatus for high-speed electrocopying and reproducing. One such piece of apparatus and copy 20-30 m of blueprint or plan per minute (compared with 6-7 m per minute with the presently used apparatus). An experimental industrial prototype is planned of a machine for conting paper with a nemi-conductor layer, based on work already done by the Institute. The paper can replace normal thotographic paper. The Institute has also devised a method of recording images on tape, useful for transmitting newstype matrices from a central office along lines of communication to branch offices throughout the country. The Lithuanian

Card 1/2

Radio Amateurs Must Make Their Contribution

107-58-7-3/43

SSR Sovnarkhoz in cooperation with the Lithuanian DOSAAF organization, is arranging a competition for radio amateurs. Radio construction enthusiasts in transport and communications enterprises will invent various types of electronic radio apparatus and introduce it into the production process. The apparatus will then be judged and prizes awarded.

- 1. Blueprints--Copying--Equipment 2. Recording paper--Coatings
- 3. Semiconductor coatings -- Applications 4. Images -- Tape recording
- 5. Radio equipment-Development

Card 2/2

WULKING, N.

"Most Appropriate Methods of Irrigation under Our Conditions." p. 102, (GOSPODLEKA WODIM, Vol. 13, No. 3, Mar. 1953. Warszawa, Poland.)

50: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

KULWIEC, E.

"Organization and Authority of Water Resources Service in Soviet Agriculture." p. 61 (GOSPODARKA WODNA, Vol. 13, No. 5, May 1953) Warszawa

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 10. October 1953. Unclassified.

KLARNER, Stanislaw; KULWIEC, Marian; MAKOWSKA, Halina

Resistance of some varieties of dark tobacco types to the black root-rot disease (Thielaviopsis basicola Ferr.) in field tests. Rocz nauk roln rosl 88 no.1:143-158 '63.

1. Centralme Laboratorium Przemyslu Tytoniowego, Warszawa.

#### KULYA, A., inzh.; PROSKURIN, I., dotsent

Modernizing flour mills and increasing the cutput of state grain mills in the Moldavian S.S.R. Muk.-elev.prom. 25 no.12:19-20 D 59. (MIRA 13:4 (MIRA 13:4)

- 1. Tekhnicheskiy otdel Moldavskogo sovnarkhoza (for Kulya). 2. Kishinevskiy gosudarstvennyy universitet (for Proskurin).
- (Moldavia -- Grain milling)

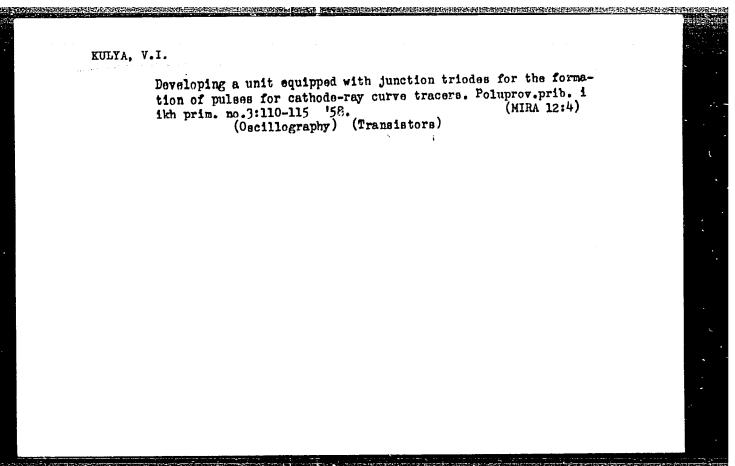
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

(MIRA 13:5)

PROSKURIN, I.G., kand.ekon.nauk; KULYA, A.I.

Oil industry of the Moldavian S.S.R. in the seven-year plan. Masl.-zhir.prom. 26 no.2:1-3 F '60.

1. Kishinevskiy gosudarstvennyy universitet.
(Noldavia--Oil industries)



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	Manage of the state of the stat	Poluprovodnikovyw pribory 1 1th primensky; stornik stater, vyp. *.  (Sentondactor Daries and Their Applantics; Collection of Articles, R. Macow, Lad-w Townstroys radio," 1960. #21 p. Erris slip inserted.  Bo. of copies printed not given:	M. (Rith pape); M. A. Pelotory Ed. (Inside book); I. M. Folkows, Reb. ! A. A. Swendibry Editorial Board: D. A. Pedotor (Rep. Ed.), S. A. Da. G. G. Perris Ed.), S. A. Da. I. G. Perris (Rep. Ed.), Yu. Except M. P. Koulor, A. Y. Krailor, A. A. Milkovsky, I. P. Sitovardy, M. Y. Berlon, and G. P. Sepanello.	FURFORM: This collection of articles is for technicians and scientists won the field of semiconductors.	OWEMAE: These articles cover the following problems: physical processes in semiconductor diodes and transistors; transistors parameters, and bethe instruments for measuring then; special fractures of transistor operation amplifiency and cellisting circuits; and effects and systems callisting size, Several articles continuous estators. References accordant	portingle, P.V., 7c.9 Lenata, and G.M. Novrachannyy, we said of percentage Lobarenture line families with Daublines Transferrent of the method proposed uses estate transferrent characteristics obtained under saftou temperature.	Exernity 18.7., and is 1. Sersoy. Disgras of Phase Automatic Preparing Colicyl Volis Sertochairor Corporate a Colicyl Volis Sertochairor Corporate as a constant of searched and some separate that is a constant of the const	Mal'to, G.B. Analysis of the Operation of a Transistonized Spars-Mary Volta's George's.  The article spants the Operating principle of a publypil block- ing continuous wing transistory tricks with a saturable transitory.	Exhancy, Tud. De of Transfators Por De Courseited The article contains superfacetal data on the use of transfators for 6-9 coursers.	Offerming, 0.1. Calculation of Partilliness Bastoch Current in a frantisizer Inche Continues The article describes the method of calculating the restillment methods current of a television standing calculator using transferors, described are given for deflecting collision of ridition type	Diricy, V.E. Beserah on a Juntion frantistor Encetag Continuors of activities describe synchroness courting during the formation of the plant Confidence of the continuous self-activation are continuous and the formals for determining pulse durint on the derived. Processes to thing the blocking cettinators are manyined and framine are given for calculating delay like processes.	Enthalor, I.A. Moving-Ortillator Uting Security Indicated Processes Controlled in a blocking-ortillator wing justion triode operating more securities coldition scalared.  The article describes that transition parameters how so substantial effect on pulse shape.	Edge, T.E. Operation Analysis of a Apparetical Multivator Datas Thoriton Thousans of the Control of Multivators under various operations board and so for the form on the basis of a simplified multivator ele- cute using a punction translator.	. Introder, T.N. Comparative Evaluation of Maintinators Ming Point-Control Transitions, and Yields of Their Application Control Transitions, and Yields of Their Application Special freezings of pulse coefficient wing point-contact transistors are exactled.	Migral, M.G., and N.F. Animov. DC Publishmeter Takes Incelled Tables A derive for securing for constant state, source to described.	polymention, i.e. translator Rass Weters for the laine-depresale fre- questy Bad. Three type of plans mean translator circuits are described.	8	ed Digital Computer P 16 type, was success		

S/142/61/004/005/005/014 E140/E135

9,2586 AUTHOR:

Kulya, V.I.

TITLE:

Junction transistor relaxation oscillator with

公司的人们的证据,我们是有关的对方的是的的知识的对对对对的证明的对话,我们就是这个形式的对对,就是这些一种是可以是是是一位的知识的的的问题的。

stiff transformer feedback

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Radiotekhnika, v.4, no.5, 1961, 574-579

The author considers the circuit shown in Fig.1. TEXT : This circuit differs from a blocking oscillator in that there is no RC timing network in the control electrode circuit. polarity of the narrow pulse at the transistor collector is opposite to that of the blocking oscillator. The operating cycle of the circuit is indicated in Fig. 2, where M is some arbitrary starting point. The corresponding collector current (a), emitter voltage (b) and collector voltage (c) wave-forms are given in Fig. 3. The author derives design equations for the circuit which were tested experimentally. The calculated and experimental results agreed generally to within 10%. There are 6 figures, 1 table and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The English language reference reads; Card 1/1 2

Junction transistor relaxation ...

5/142/61/004/005/005/014

E140/E135

Ref. 1: L.H. Light, P.M. Hooker, Transistor DC convertor.

PIEE, v.102, no.6, 1955, 775.

ASSOCIATION: Kafedra radiotekhniki Odesskogo elektrotekhniches-

kogo instituta svyazi

(Department of Radioengineering, Odessa Electrotechnical Communications Institute)

SUBMITTED:

To NDVSh, November 5, 1959.

To Izv. vuz Radiotekhnika, February 4 1960 initially,

and after revision, November 16, 1960.

Card 2/# 2

S/142/61/004/006/017/017 E192/E382

6.9500

AUTHOR: Kulya, V.I.

TITLE: Noise-immunity and channel capacity of phase-pulse

modulated five-sign code

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 4, no. 6, 1961, 751 - 733

TEXT: The phase-pulse modulated code is obtained from the usual five-sign code by transmitting pulse-messages during one-half of the cycle and spaces during the second half of the cycle; this is illustrated in Fig. 1, where a shows the usual five-sign code and 5 illustrates the PPM code. All the combinations of the PPM code form part of the combinations of the uniform ten-sign binary code. Since the code is non-self-correcting, it is interesting to investigate the distortion errors in it. A single distortion occurs if one elementary message of the ten-sign code is distorted. It is shown that the probability of printing the erroneous information is expressed by:

Card 1/4

Noise-immunity and ....

S/142/61/004/006/017/017 E192/E382

$$p_{NCK}\left(\frac{\alpha}{\sqrt{2}}\right) \approx 5p^2\left(\frac{\alpha}{\sqrt{2}}\right)q^{5}\left(\frac{\alpha}{\sqrt{2}}\right)$$
 (4)

7

where  $\alpha = u_0 \sqrt{\epsilon} / \sigma \sqrt{2}$ , where  $u_0$  is the amplitude,

or is the root mean square value of noise, and is the duration of a single pulse:

$$p(\alpha) = \frac{1}{2} - \frac{1}{\sqrt{2\pi}} \begin{cases} \alpha - \frac{z^2}{2} \\ e^{-\frac{z^2}{2}} \end{cases}$$
 dz is the probability of the distortion

of a single pulse when the noise fluctuation is  $q(\alpha)$  (Ref. 2 V.A. Kotel'nikov - Theory of potential noise immunity in the Card 2/4

S/142/61/004/006/017/017 E192/E382

Noise-immunity and ....

presence of fluctuation noise (Teoriya potentsial'noy pomekhoustoychivosti pri flyuktuatsionnykh pomekhakh), Doctor's Dissertation, MEI, 1946). It is also shown that if the channel capacity of a five-sign code is assumed as being unity, the channel capacity of a self-correcting system is expressed by:

$$c = \frac{1}{1 + 3\left[1 - 5p^2\left(\frac{\alpha}{\sqrt{2}}\right)q^8\left(\frac{\alpha}{\sqrt{2}}\right) - q^{10}\left(\frac{\alpha}{\sqrt{2}}\right)\right]}$$
(5).

On the basis of the above formulae, it is found that the PPM code with automatic correction has a lower noise immunity than the twelve-sign self-correcting code. The channel capacity of the code is roughly three times lower than that of the normal five-sign code. There are 3 figures

Card 3/4

#### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927510017-9

S/142/61/004/006/017/017 E192/E382

Noise-immunity and ....

ASSOCIATION:

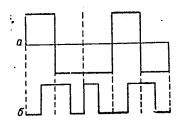
Kafedra teoreticheskikh osnov radiotekhniki Odesskogo elektrotekhnicheskogo instituta svyazi (Department of Theoretical Principles of Radioengineering of Odessa Electrotechnical Tele-

communications Institute)

SUBMITTED:

July 30, 1961

Fig. 1:



Card 4/4

S/106/62/000/007/004/005 A055/A101

6 9500

AUTHOR:

Kulya, V.I.

TITLE:

Applying Laguerre functions to the parametrical coding of speech

signals

PERIODICAL: Elektrosvyaz', no. 7, 1962, 33 - 39

TEXT: The author investigates the possibility of constructing the speech spectrum compression system on the basis of the transmission of a limited number of the "signal-parameters" of the modulus of the instantaneous spectrum

$$\left| \mathbf{S}_{\mathbf{r}} \left( \boldsymbol{\omega}, \mathbf{t} \right) \right| = \left| \sum_{n=0}^{t} \mathbf{r} \left( \boldsymbol{\tau} - \mathbf{t} \right) \mathbf{f}(\boldsymbol{\tau}) \right| e^{-i\boldsymbol{\omega}\boldsymbol{\tau}} d\boldsymbol{\tau} ,$$
 (1)

 $[r(\mathcal{T})]$  being a certain weighting function of the integration, proportional to the coefficients of the expansion of the instantaneous autocorrelation function of the speech signal f(t) into a series by the Laguerre functions. The utilization of the Laguerre functions enables the author to use analyzers and synthesizers of the synthetic telephony channel, containing only RC-elements; the use of cumbrous

Card 1/72

38974

S/106/62/000/007/004/005 A055/A101

Applying Laguerre ....

analyzers containing 1-f LC-delay lines is thus avoided. The analyzer used by the author is shown in fig. 3, where a, b and c correspond to the RC-circuits a), b) and c) of fig. 2; Multo, Mult1... Multy are voltage multipliers;  $\phi$  o,  $\phi$  1...  $\phi$ y are four-poles whose "pulse responses" coincide with r ( $\tau$ ). The salient feature of the described method is a nonuniform precision (nonuniform over the frequency scale) of the approximation of the instantaneous spectrum envelope. The precision of the approximation is higher in the 1-f region, whereas it decreases at higher frequencies, which is in agreement with the peculiarities of the auditory perception. At the end of the article, the author expresses his thanks to A.Yu. Lev. The Soviet personalities mentioned in the article are: M.A. Sapozhkov, A.A. Pirogov, V.Ye. Murav'yev, V.G. Velichko and A.M. Polykovskiy. There are 5 figures.

SUBMITTED: January 2, 1962

Card 2/3 >

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

6,2550

S/108/62/017/002/004/010 D201/D305

AUTHOR:

Kulya, V.I., Member of the Society (see Association)

大型的设计的企业的企业的企业,但是是企业的企业,不是是国际的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业。

TITLE:

Pre-distortion and filtering in a channel with vary-

ing parameters

PERIUDICAL: Radiotekhnika, v. 17, no. 2, 1962, 24 - 30

TEXT: The author considers problems related to setting and solving problems of determining the optimum linear operations on a signal when transmitted over a channel the system function of which  $H(-i\omega, t)$  depends on time. The stationary random signal  $\xi(t)$  is passed through a filter -pre-distorter with a transfer coefficient  $F(-i\omega)$  and is transmitted through a varying parameter channel with the system function  $H(-i\omega, t)$ . At the receiving end the signal, together with the added stationary random interference x(t) is passed through a linear filter with the transfer coefficient  $\Phi(-i\omega)$  and applied to the load as u(t). The problem of finding the best pair of filters  $F(-i\omega)$  and  $\Phi(-i\omega)$  may be determined as obtaining the minimum of the r.m.s. error

Card 1/4

33789 5/108/62/017/002/004/010

Pre-distortion and filtering in ...

$$\varepsilon_{\rm T}^2 = M/\xi(t - T) - u(t)/2$$
 (1)

It is shown that for fast varying channel parameters the problem is basically that of determining an optimum linear filtering of a stationary random signal in the presence of noise. For simple filtering (without prodictorider) ing (without pre-distortion)

$$|\Phi(i\omega)| = \frac{|F(i\omega)| |H_0(i\omega)| /_{\xi}(\omega)}{\frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(i\lambda)|^2 /_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_x(\omega)}$$
(16)

and

Ithout pre-distortion)
$$|\Phi(i \omega)| = \frac{|F(i\omega)| |H_0(i\omega)| f_{\xi}(\omega)}{\frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)}$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + |H_0(-i\omega|^2 |F(-i\omega)|^2 \times \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

$$= \frac{1}{2\pi} \int_{-\infty}^{\infty} G(-i\lambda, -i\omega) |F(-i\lambda)|^3 f_{\xi}(\lambda) e^{-i(\lambda-\omega)} d\lambda + f_{x}(\omega)$$

are obtained, in which  $G(-i\lambda, -i\omega)$  is the asymmetrical kernel of Card 2/4

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Pre-distortion and filtering in ...

/F(iw)/ obtained by the usual Lagrange method of multipliers and all f's denote the energy spectra of their respective subscripts. These two equations have a form similar to those which may be obtained for channels with constant parameters. The specific difference in calculations consists only in operations with a two-dimensional channel function  $G(-i\lambda, i\omega)$ . This function must be known beforehand for any given problem. The full solution for the case of slowly varying parameters is obtained in the same manner. The obtained Eqs.

 $|F(-i\omega)|^{2} = \frac{1}{G^{2}(i\omega)} \left[ \frac{|H_{0}(-i\omega)|}{V^{\frac{1}{h}}} \sqrt{\frac{I_{x}(\omega)}{I_{\xi}(\omega)}} - \frac{I_{x}(\omega)}{I_{\xi}(\omega)} \right]$   $|\Phi(-i\omega)|^{2} = \frac{\lambda}{G^{2}(i\omega)} \left[ \frac{|H_{0}(-i\omega)|}{V^{\frac{1}{h}}} \sqrt{\frac{I_{\xi}(\omega)}{I_{x}(\omega)}} - 1 \right]$ (22)

where

$$V\overline{\lambda} = \frac{\int_{-\infty}^{\infty} \frac{|H_0(-i\omega)|^2}{G^2(i\omega)} V \overline{I_x(\omega) I_{\xi}(\omega) d\omega}}{A + \int_{\infty}^{\infty} \frac{f_x(\omega)}{G^2(i\omega)} d\omega}.$$
 (23)

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Pre-distortion and filtering in ...

and

$$\varepsilon_{\min}^2 = \int_{0}^{\infty} \frac{|F(-i\omega)|^2 [G^2(i\omega) + |H_0(-i\omega)|^2] f_r^2(\omega) + f_x(\omega) f_{\xi}(\omega)}{|F'(-i\omega)|^2 G^2(i\omega) f_{\xi}(\omega) + f_x(\omega)} d\omega. \tag{24}$$

fully solve the problem of pre-distortion and filtering can be easily applied to the practical case of a two-path transmission channel with random delay. In this case  $H(-i\omega, \xi) = 1 + e^{-i\omega \xi}/2$  and

Grain this case 
$$h(-i\omega)$$
,  $\zeta = 1 + \frac{1}{2}$   
 $G^{2}(i\omega) = 1 + \frac{1}{2}\cos\omega\zeta dF(\zeta) = 1 + |\varphi(-i\omega)|$ .

There are 1 figure and 9 references: 6 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: J.P. Costas, PIRE, v. 40, no. 9, 1952; R.S. Berkowitz, PIRE v. 41, no. 4, 1953; L.A. Zadek, PIRE, v. 38, no. 11, 1950.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A.S. Popov) [Abstractor's note: Name of Association taken from first page of journal]

SUBMITTED: December 28, 1960 (initially)
Card 4/4 March 28, 1961 (after revision

s/106/63/000/003/003/00<sup>1</sup> A055/A126

AUTHOR:

Kulya, V.I.

TITLE:

Investigation of the Chebyshev-type vocoder

PERIODICAL: Elektrosvyaz', no. 3, 1963, 22 - 30

This is a continuation of the author's work "Applying Laguerre functions to the parametric coding of speech signals" (Elektrosvyaz', 1962, no. 7). The present article is a theoretical and experimental investigation of the Chebyshev variant of the vocoder (speech spectrum compression). Slow-variation signal-parameters proportional to the coefficients of the expansion of the synthesizer pulse response into a series according to orthogonal Laguerre functions are used for coding speech information. The principle of the analyzer is the following: if the envelope of the modulus of the instantaneous spectrum of the speech signal is S  $(\omega, t)$ , the pulse response of the synthesizer can be represented as:

g (v, t) =  $\frac{1}{\pi} \int_{\lambda}^{\infty} S(\omega, t) \cos \omega \tau d\omega$ ,

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S/106/63/000/003/003/004 A055/A126

Investigation of the Chebyshev-type vocoder

and the signal-parameters proportional to the coefficients of its expansion into a scries according to Laguerre functions on the right-hand semi-axis of time  $(\tau)$ 

$$a_{\nu}(t) = \int_{0}^{\infty} g(\tau, t) L_{\nu}(\tau) d\tau = \int_{0}^{\infty} S(\omega, t) \psi_{\nu}(\omega) d\omega ; \quad \tau \geq 0, \quad (2)$$

where

$$L_{\nu}(\tau) = e^{\frac{\lambda \tau}{2}} \frac{d^{(\nu)}}{d\tau^{\nu}} \left(\frac{\tau^{\nu}}{\nu!} e^{-\lambda \tau}\right), \tag{3}$$
Supertions of the V-th order (V = 0, 1, 2, 3, ...);

are orthogonal Laguerre functions of the v-th order (v = 0, 1, 2, 3, ...);

$$\psi_{\nu}(\omega) = \int_{0}^{\infty} L_{\nu}(\tau) \cos \omega \tau \, d\tau = \frac{T_{2\nu+1}\left(\sqrt{1 + \frac{4\omega^{2}}{\lambda^{2}}}\right)}{\sqrt{1 + \frac{4\omega^{2}}{\lambda^{2}}}}; \qquad (4)$$

 $T_{2v+1}(x)$  are Chebyshev polynomials of the first kind and of the (2v+1)-th Card 2/4

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Investigation of the Chebyshev-type vocoder

order. In electric simulation, (2) can be approximated by:

$$a_{\nu}(t) \approx \sum_{k=1}^{m} s(\omega_{k}, t) \psi_{\nu}(\omega_{k}) \Delta \omega_{k},$$
 (5)

where  $S(\omega_k, t)$  are readings of the instantaneous spectrum envelope on the frequency axis for values  $\omega = \omega_k$ ; m is the number of readings;  $\Delta \omega_k = \omega_{k+1} - \omega_k$ . Two variants of the experimental analyzer permitting to obtain (5) - variants with and without selective filters, respectively - are described and examined. The first variant permits the simulation of the initial relations with an error not exceeding 5%. The instantaneous pulse response of the synthesizer can have the following form:

 $g(t, \tau) = \sum_{v=0}^{T} a_v(t) \left[ L_{m-v}(\tau) + L_{m+v+1}(\tau) \right]; \quad \tau > 0$  (12)

on the right-hand time-axis. The synthesizer circuit and, in particular, the RC-section producing pulse responses in the form of Laguerre functions are described and examined. The principles underlying the choice of the optimum value of the parameter  $\lambda$  are discussed; the value  $\lambda = 5.34 \pi \, 10^3$  is selected. The

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investigation of the Chebyshev-type vocoder

results of some articulation tests are reproduced. These tests confirm the theoretical considerations on the advantages of a nonuniform precision (over the frequency scale) in the approximation of the envelope of the modulus of the instantaneous spectrum by means of Laguerre polynomials. The analyzer without filter, though less accurate, is advantageous owing to its simplicity. The Chebyshev-type vocoder permits microminiaturization of devices; all its elements can be constructed without using inductances. There are 10 figures and 2 tables.

SUBMITTED: October 10, 1962

Card 4/4

L 13835-63 EWT(1)/EWG(k)/FCC(w)/BDS/ES(v)/EEC-2 AFFTC/ASD/ESD-3/APGC  SSD Pz-4/Pe-4/P1-4/P1 PT-2/GW ACCESSION NR: AF3000005 S/C106/63/C00/C05/CC/C/COS	
AUTHOR: Kulya, V. I.; Model'man, F. Ya.	
TITLE: Selection of trequency band for intermittent radio communication	
SOURCE: Elektrosvyaz', no. 5, 1963, 72-73	
TOPIC TAGS: meteor-burst radiocommunication	
ARSTRACT: Montgomery and Sugar (Proc. IRE, 1957, vol. 45, No. 12) investigated the rate of information transmission vs. fragmenty band for mateur-burst or other intermittent transmission. Their formula for the mean protability of error is considered inaction of the formula is suggested (Enclosure, formulae 2 and 4 respective.)). The formula formula which a is treated value of the mean probability of error. The latter formula shows that the traffic capacity is a decreasing function of frequency. Orig. art. has: 7 formulae.	
ASSOCIATION: note	
Card 1/3/	

KULYA, V.I, (Odessa)

Calculation of a resistive matrix network. Avtomatyka 8
no.3:73-75 '63. (Electric networks)

ACCESSION NR: AP4029223

5/0106/64/000/004/0048/0060

AUTHOR: Kulya, V. I.

TITLE: Experimental investigation of correlations in the speech spectrum and comparison between some orthogonal vocoders [Report at the All-Union Conference on Coding Theory and Applications, Odessa, May 1963]

SOURCE: Elektrosvyaz', no. 4, 1964, 48-60

TOPIC TAGS: speech, speech spectrum, vocoder, orthogonal vocoder, speech spectrum correlation

ABSTRACT: On the basis of published sources, elements of the discretization-interpolation theory of speech transmission are discussed. The mean square error of the reproduction of instantaneous-spectrum readings when interpolation is made by arbitrary orthogonal functions is:

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ACCESSION NR: AP4029223

$$\mathbf{e}^{\mathbf{z}} = T||R|| - \frac{\{T[||B|| \cdot ||R||]\}^2}{T[||B|| \cdot ||R|| \cdot ||B||]},$$

where T is the matrix trace:  $||B|| = ||\tilde{C}|| \cdot ||C||$ .

Correlations between the readings of the envelope of an instantaneous speech spectrum were determined on an electron simulator in the Laboratory of Computer Mathematics, Odessa State University. Signals from a 17-band spectrum analyzer were processed. It was found that vocoder-band signals are strongly cross-correlated: the correlation coefficient was never below 0.5 and often reached 0.86. To evaluate the efficiency of transmission of vocoder signal-parameters, eigenvectors and characteristic numbers of  $\|R\|$  were determined on a computer. The effect of the number of vocoder coordinates upon the mean square error was computed for these vocoder types: (a) harmonic with mixed scanning, (b) harmonic with cosine scanning, and (c) Cheby\*shev's with  $\lambda = 5.34$  T  $\times 10^3$ . Speech-spectrum correlations were found fairly stable for

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### ACCESSION NR: AP4029223

4 speakers (2 men, 2 women); the developed orthogonal functions satisfactorily approximated the spectrum; hence, 8 coordinates are considered sufficient for approximating the speech spectrum of any voice. The speech signal or filtered narrow bands of its spectrum cannot be considered as a normal random process. "The author is greatly indebted to A. Yu. Lev, A. A. Pirogov, and N. K. Ignat'yev for discussing the results. Computer work was done by N. T. Bozhchenko." Orig. art. has: 4 figures, 12 formulas, and 3 tables.

ASSOCIATION: Odesskiy gosudarstvenny\*y universitet (Odessa State University)

SUBMITTED: 03Aug63

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: DP

NO REF SOV: 006

OTHER: 001

Card 3/3

ACC NR: AT6022316

SOURCE CODE: UR/0000/66/000/000/0048/0054

AUTHOR: Kulya, V. I.

ORG: none

TITLE: Transmission of vocoder signals over small-capacity binary channels

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya provodnoy svyazi. Doklady. Moscow, 1966, 48-54

TOPIC TAGS: vocoder, telephone signal

ABSTRACT: The successful transmission of band-vocoder signals over a 1500-bit/sec channel (Aviation Week and Space Technology, 1960, v. 73, nos. 3-4) prompted the following experimental study which was intended to reduce the above channel capacity by using orthogonal vocoders. The speech signal was converted by a vocoder analyzer; 13 band filters operated within 300-3400 cps. A matrix network turned the spectrum instantaneous values into 8 signal parameters. W. Koenig's equal-articulation scale was selected (BLR, 1948, v. 27, no. 8). Block diagrams are shown. These results are reported: (1) With a fixed binary-channel capacity,

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ACC NR. AT6022316

the speech-intelligibility loss due to a lower quantization frequency can be compensated, to a certain degree, by increasing the number of binary digits representing the signal-parameter levels; however, at quantization frequencies under 40 cps, irreversible intelligibility impairments occur; (2) With a fixed speech intelligibility, the logarithmic quantization scale permits halving the binary-channel capacity as compared to that required by the uniform-level scale; (3) With a channel capacity under 1500 bits/sec, it is expedient to discard the 8th signal parameter, thus enhancing the transmission accuracy of the rest of the signal parameters; (4) A binary channel of 2500 bits/sec capacity ensures almost undistorted synthesized-speech transmission; a minimal channel capacity of 1000 bits/sec (no fundamental tone) is required to transmit speech with an intelligibility of 70%. "In conclusion, the author wishes to thank A. A. Pirogov for the problem statement, and A. S. Krys'ko, A. A. Luyk, V. P. Matveychuk, and V. S. Sidenko for their part in the experimental work." Orig. art. has: 3 figures, 4 formulas, and 1 table.

SUB CODE: 17, 09 / SUBM DATE: 31Mar66 / ORIG REF: 005 / OTH REF: 003

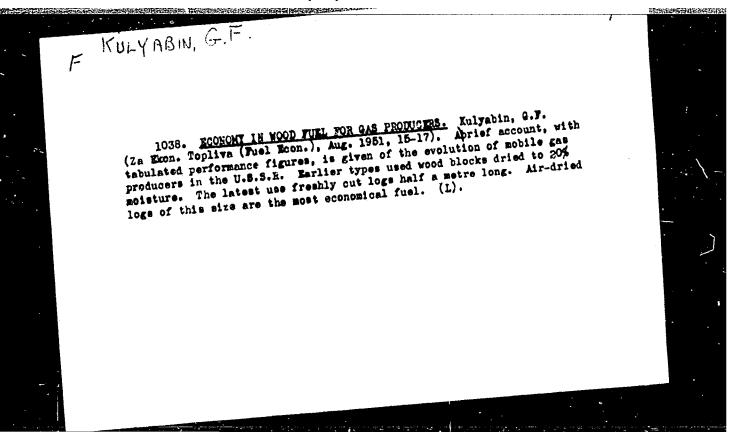
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SC: LETOFIS' No. 40



#### CIA-RDP86-00513R000927510017-9 "APPROVED FOR RELEASE: 06/19/2000

\$/045/67/647/003/004/025

AUTHORS:

Shuvayev, A. T., and Kulyabin, G. K.

TITLE:

Effect of a change in valency of chromium on its K

emission spectrum

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 3, 1963, 322-323

TEXT: This paper was presented at the 6th Conference on X-ray Spectroscopy, Odessa, July 2 - 10, 1962. The K emission spectrum of chromium as a metal and in the compound Cr20, and K2CrC, excited with, a in the range in the state of with a second

to a little of the constant (Or.Cy) to analysis for the constant lines of chromium shift to longer waves, the H - line shifts

rapidly to shorter waves. This behavior is characteristic of the transtion elements of the iron group. With increasing valency, the H.,

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char, i.e. The statch as sett, index, and restricted in the state of the state of liver valent, it will be sufficient in the state of liver valent, it will be sufficient.

List this is characteristic of the iron group transition elements. There are infigure and a tables.

ASSOCIATION: Rostovskiy-na-Donu gos. universitet (Rostov-na-Donu State University)

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# CIA-RDP86-00513R000927510017-9

KULYARKO, B. V., LT COL	ng the seriously ill and those emas cordis studied: 1) the verse cordis media, 3) the version of the verse cordis, and h) the version of the verse cordis, and h) the verse leart Disease (Contd) No 1947. Chief of Chair of Gen N. N. Anichkov (Med), Act d imeni Kirov.	scopic Structure of Venas Cordis in Cardiopathy, Lt Col B. V. Kulyabko Cardiopathy, Lt Col B. V. Kulyabko rad, Chair of Pathol Anat, Mil Med A 9t pp  Patolog No 6  Patolog No 6  No of a series on heart structure di has of a series on studies of 48 case	UESR/Medicine - Heart, Disease Medicine - Veins	
531164	v. cordis parva. posterior posterior posterior posterior posterior posterior Academician, Academician,	wed)	W <sub>2</sub>	

# SUZDALEVA, V.V.; KULYABKO, O.M.

Determination of the lability of blood protein systems in anaphylactic shock. Problegemat. i perel. krovi 1 no.3:46-47 My-Je '56. (MIRA 10:1)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - chlen-korrespondent AMN SSSR prof. A.A. Bogdasarov) Ministerstva zdravookhraneniya SSSR.

(AILERGY, exper.
anaphylactic shock, blood protein systems in, determ. of
lability)
(BLOOD PROTEIN, in various dis.

exper. anaphylactic shock, lability determ. of blood protein systems)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

KULYABKO, O.M.

Histamine content of blood in myeloid loukemia in children [with summary in English, p.63]. Problegemat. i perel.krovi. 3 no.3:21-24 My-Jo '58

1. Iz Instituta pediatrii ANN SSSR (dir. - chlen-korraspondent ANN SSSR prof. O.D. Sokolova-Ponomareva).

(LENKEMIA, MYELOCTTIC, in infant and child, blood histamine (Rus))

(HISTAMINE, in blood, in myelocytic leukemia in child. (Rus))

## KULYABKO, O.M.

KULYABKO, O.H.; DANILINA, Z.A.

Blood histamine content in purpura in children. Pediatriia 37 no.7:31-35 J1 159. (MIRA 12:10)

1. Iz laboratorii patofiziologii (zav. - prof.N.M.Nikolayev)
Instituta pediatrii AMI SSSR (dir. - chlen-korrespondent AMI SSSR prof.O.D.Sokolova-Ponomareva) i kafedry detskikh bolezney (zav. - deystvitel'nyy chlen AMI SSSR prof.Yu.F.Dombrovskaya)
I Moskovskogo meditsinskogo instituta imeni I.M.Sechenova.

(PURPUMA, NONTHROMBOPENIC, in inf. & child, blood histamine (Rus))

(HISTAMINE, in blood, in nonthrombopenic purpura in child. (Rus))

KULYABKO, O. M., Cand Biol Sci (diss) -- "The bidogically active blood components at various stages of the leukemia process in children". Moscow, 1960.

1h pp (Acad Med Sci USSR), 200 copies (KL, No 10, 1960, 128)

PUCHKOV, N.V.; KULYABKO, O.M.

Effect of blood serum from children with myeloid leukemia on the phagocytic reaction of leukocytes. Pat. fiziol. i eksp. terap. no.2: 82-83 '64. (MIRA 17:9)

l. Laboratoriya patofiziologii Instituta pediatrii (dir. - dotsent M.Ya. Studenikin) AMN SSSR, Moskva.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

KULYABKO, O.V., kand.med. nauk; SEREDA, Ye.V., kand.med.nauk

Histaminopexy in healthy children and in those with primary tuberculosis. Pediatriia 4 no.7:11-17 J1:63 (MIRA 16:12)

1. Iz tuberkuleznogo otdeleniya (zav. - prof. I.B.TSimbler) i patofiziologicheskoy laboratorii (zav. - prof. N.V.Puchkov) Instituta pediatrii (dir. - dotsent M.Ya. Studenikin) AMN SSSR.

### CIA-RDP86-00513R000927510017-9 "APPROVED FOR RELEASE: 06/19/2000

KULYABKO, P.M.

Effect of thyroidectomy on the effectiveness of fattening hogs. Fiziol.zhur.[Ukr.] 9 no.1:132-133 Ja-F 163.

(MIRA 18:5)

l. Laboratoriya biofiziki Instituta fiziologii im. Begomol'tsa AN UkrSSR, Kiyev.

KULYABKO, P.N. [Kuliabko, P.M.]

Evaluation of the functional state of the thyroid gland of swine after local irradiation with X-rays. Fiziol. zhur. [Ukr.] 9 no.6:826-828 N-D 163. (MIRA 17:8)

l. Laboratoriya bicfiziki Instituta fiziologii im. Bogomol'tsa AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927510017-9"

KULYABKO, V. (Volzhskiy Volgogradskoy obl.); SAKHANOV, Yu., inzh. (Volzhskiy Volgogradskoy obl.); DODONOV, P., inzh. (Volzhskiy Volgogradskoy obl.); FARAFONOV, M. (Volzhskiy Volgogradskoy obl.)

Eight and a half kopeck per ton. Izobr.i rats. no.5 (201):35
163. (MIRA 16:7)

(Coment--Transportation)

TSIRKIN, Yu.M.: KRASOVSKIY, F.V.; KULYABKO, V.V.

Use of the hemagglutination inhibition reaction in the diagnosis of tick-borne encephalitis and in the detection of the immuno-logical structure of the population in pseudo-foci. Med. paraz. i paraz. bol. 32 no.5:567-572 S-0:63 (MIRA 16:12)

l. Iz otdela epidemiologii (zav. - prof. N.N.Dukhanina) Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye. I.Martsinovskogo (dir. - prof. P.G.Sergiyev) virusologicheskoy laboratorii Krasnoyarskoy krayevoy sanitarno-epidemiologicheskoy stantsii (zav. F.V.Krasovskiy) i parazitologicheskogo otdela Krasnoyarskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (zav. V.V. Kulyabko).